

apilon 52c® C 64 PC

Thermoplastic Polyurethane Elastomer (PC Based)

API SpA

Message:

The wide range of APILON52 C products consisting exclusively of aromatic thermoplastic polyurethanes is equipped to meet most market demands. The APILON52 C famiy is organized in different chemical types, designed to provide a physical/ chemical performance corresponding to the specific needs of different uses in the FOOTWEAR, CLOTHING, LEATHER GOODS AND FURNISHINGS industries.

POLYCARBONATES - These are "TOP-CLASS" products used to manufacture items that cannot have chemical and mechanical performance compromises, and that must always guarantee the best possible result.

| General Information | | | |
|----------------------------------|------------------------|---------|-------------|
| Features | Autoclave Sterilizable | | |
| | Hydrolysis Resistant | | |
| | Soft | | |
| Uses | Coating Applications | | |
| | Footwear | | |
| Physical | Nominal Value | Unit | Test Method |
| Solution Viscosity ¹ | 7000 to 11000 | mPa · s | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 88 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| -- | 45.0 | MPa | |
| 100% Strain | 7.00 | MPa | |
| 300% Strain | 13.0 | MPa | |
| Tensile Elongation (Break) | 600 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength ² | 100 | kN/m | ASTM D624 |
| Thermal | Nominal Value | Unit | |
| Melting Temperature ³ | 190 to 210 | °C | |
| NOTE | | | |
| 1. | 25% in DMF | | |
| 2. | Without Notch | | |
| 3. | Kofler | | |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

